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**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/497,957**

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This Raw Listing contains the General Information Section and up to the first 5 pages.

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47
48 (vii) PRIOR APPLICATION DATA:
49 (A) APPLICATION NUMBER: US 08/630,912
50 (B) FILING DATE: 04-APR-1996
51
52 (viii) ATTORNEY/AGENT INFORMATION:
53 (A) NAME: Poissant, Brian M.
54 (B) REGISTRATION NUMBER: 28,462
55 (C) REFERENCE/DOCKET NUMBER: 8907-0056-999
56
57 (ix) TELECOMMUNICATION INFORMATION:
58 (A) TELEPHONE: 650-493-4935
59 (B) TELEFAX: 650-493-5556
60 (C) TELEX: 66141 PENNIE
61
62
63
64 (2) INFORMATION FOR SEQ ID NO:1:
65
66 (i) SEQUENCE CHARACTERISTICS:
67 (A) LENGTH: 10825 base pairs
68 (B) TYPE: nucleic acid
69 (C) STRANDEDNESS: single
70 (D) TOPOLOGY: linear
71
72 (ii) MOLECULE TYPE: DNA (genomic)
73
74
75 (ix) FEATURE:
76 (A) NAME/KEY: CDS
77 (B) LOCATION: join(361..436, 3762..4025, 4235..4510, 5606..5881,
78 6040..6153, 7107..7147)
79 (D) OTHER INFORMATION: /product= "Heredity Hemochromatosis
80 (HH) protein"
81 /note= "Normal or wild-type (unaffected)
82 Heditary Hemochromatosis (HH) gene
83 allele"
84
85 (ix) FEATURE:
86 (A) NAME/KEY: -
87 (B) LOCATION: 140..7319
88 (D) OTHER INFORMATION: /note= "start and stop positions for
89 normal or wild-type (unaffected) allele
90 cDNA (SEQ ID NO:9)"
91
92 (ix) FEATURE:
93 (A) NAME/KEY: -
94 (B) LOCATION: 3852..3891
95 (D) OTHER INFORMATION: /note= "start and stop positions for
96 normal or wild-type (unaffected) genomic
97 sequence surrounding variant for 24d2(c)
98 allele (SEQ ID NO:41)"
99

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100 (ix) FEATURE:
 101 (A) NAME/KEY: -
 102 (B) LOCATION: 5507..6023
 103 (D) OTHER INFORMATION: /note= "start and stop positions for
 104 normal or wild-type (unaffected) genomic
 105 sequence surrounding variant for 24d1(G)
 106 allele (SEQ ID NO:20)"
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 108 (ix) FEATURE:
 109 (A) NAME/KEY: allele
 110 (B) LOCATION: replace(3872, "c")
 111 (D) OTHER INFORMATION: /phenotype= "normal or wild-type
 112 (unaffected)"
 113 /label= 24d2
 114
 115 (ix) FEATURE:
 116 (A) NAME/KEY: allele
 117 (B) LOCATION: replace(3878, "a")
 118 (D) OTHER INFORMATION: /phenotype= "normal or wild-type
 119 (unaffected)"
 120 /label= 24d7
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 122 (ix) FEATURE:
 123 (A) NAME/KEY: allele
 124 (B) LOCATION: replace(5834, "g")
 125 (D) OTHER INFORMATION: /phenotype= "normal or wild-type
 126 (unaffected)"
 127 /label= 24d1
 128
 129
 130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
 131
 132 TCTAAGGTTG AGATAAAATT TTTAAATGTA TGATTGAATT TTGAAAATCA TAAATATTTA 60
 133
 134 AATATCTAAA GTTCAGATCA GAACATTGCG AAGCTACTTT CCCCAATCAA CAACACCCCT 120
 135
 136 TCAGGATTAA AAAACCAAGG GGGACACTGG ATCACCTAGT GTTTCACAAG CAGGTACCTT 180
 137
 138 CTGCTGTAGG AGAGAGAGAA CTAAAGTTCT GAAAGACCTG TTGCTTTCA CCAGGAAGTT 240
 139
 140 TTACTGGGCA TCTCCTGAGC CTAGGCAATA GCTGTAGGGT GACTTCTGGA GCCATCCCCG 300
 141
 142 TTTCCCCGCC CCCCCAAAAGA AGCGGAGATT TAACGGGGAC GTGCGGCCAG AGCTGGGGAA 360
 143
 144 ATG GGC CCG CGA GCC AGG CCG GCG CTT CTC CTC CTG ATG CTT TTG CAG 408
 145 Met Gly Pro Arg Ala Arg Pro Ala Leu Leu Leu Leu Met Leu Leu Gln
 146 1 5 10 15
 147
 148 ACC GCG GTC CTG CAG GGG CGC TTG CTG C GTGAGTCCGA GGGCTGCGGG 456
 149 Thr Ala Val Leu Gln Gly Arg Leu Leu
 150 20 25
 151
 152 CGAACTAGGG GCGCGGGCGGG GGTGGAAAAA TCGAAACTAG CTTTTCTTT GCGCTTGGA 516

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153	GTTTGCTAAC TTTGGAGGAC CTGCTCAACC CTATCCGCAA GCCCCTCTCC CTACTTCTG	576
154		
155		
156	CGTCCAGACC CCGTGAGGGA GTGCCTACCA CTGAAGTCGA GATAGGGGTC CCTCGCCCCA	636
157		
158	GGACCTGCC CCTCCCCCGG CTGTCCCGGC TCTGCGGAGT GACTTTTGGAA ACCGCCACT	696
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160	CCCTTCCCCC AACTAGAATG CTTTTAAATA AATCTCGTAG TTCCCTCACTT GAGCTGAGCT	756
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162	AAGCCTGGGG CTCCTGAAC CTGGAACTCG GGTTTATTTC CAATGTCAGC TGTGCAGTTT	816
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164	TTTCCCCAGT CATCTCCAAA CAGGAAGTTTC TTCCCTGAGT GCTTGCCGAG AAGGCTGAGC	876
165		
166	AAACCCACAG CAGGATCCGC ACGGGGTTTC CACCTCAGAA CGAATGCGTT GGGCGGTGGG	936
167		
168	GGCGCAGAAAG AGTGGCGTTG GGGATCTGAA TTCTTCACCA TTCCACCCAC TTTGGTGAG	996
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170	ACCTGGGTG GAGGTCTCTA GGGTGGGAGG CTCCCTGAGAG AGGCCTACCT CGGGCCTTTC	1056
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172	CCCACCTTG GCAATTGTTT TTTGCCTGG AAAATTAAGT ATATGTTAGT TTTGAACGTT	1116
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174	TGAACCTGAAAC AATTCTCTTT TCGGCTAGGC TTTATTGATT TGCAATGTGC TGTGTAATTA	1176
175		
176	AGAGGCCTCT CTACAAAGTA CTGATAATGA ACATGTAAGC AATGCACTCA CTTCTAAGTT	1236
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178	ACATTCTATAT CTGATCTTAT TTGATTTCA CTAGGCATAG GGAGGTAGGA GCTAATAATA	1296
179		
180	CGTTTATTTT ACTAGAAGTT AACTGGAATT CAGATTATAT AACTCTTTTC AGGTTACAAA	1356
181		
182	GAACATAAAAT AATCTGGTTT TCTGATGTTA TTTCAAGTAC TACAGCTGCT TCTAATCTTA	1416
183		
184	GTTGACAGTG ATTTGCCCT GTAGTGTAGC ACAGTGTCT GTGGGTCACA CGCCGGCCTC	1476
185		
186	AGCACAGCAC TTTGAGTTTT GGTACTACGT GTATCCACAT TTTACACATG ACAAGAATGA	1536
187		
188	GGCATGGCAC GGCCTGCTTC CTGGCAAATT TATTCAATGG TACACTGGGC TTTGGTGGCA	1596
189		
190	GAGCTCATGT CTCCACTTCA TAGCTATGAT TCTTAAACAT CACACTGCAT TAGAGGTTGA	1656
191		
192	ATAATAAAAT TTCATGTTGA GCAGAAATAT TCATTGTTA CAAGTGTAAA TGAGTCCCAG	1716
193		
194	CCATGTGTTG CACTGTTCAA GCCCCAAGGG AGAGAGCAGG GAAACAAGTC TTTACCTTT	1776
195		
196	GATATTTGC ATTCTAGTGG GAGAGATGAC AATAAGCAAA TGAGCAGAAA GATATACAAC	1836
197		
198	ATCAGGAAAT CATGGGTGTT GTGAGAAGCA GAGAACTCAG GGCAAGTCAC TCTGGGCTG	1896
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200	ACACTTGAGC AGAGACATGA AGGAAATAAG AATGATATTG ACTGGGAGCA GTATTTCCA	1956
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202	GGCAAACCTGA GTGGGCTGG CAAGTTGGAT TAAAAAGCGG GTTTTCTCAG CACTACTCAT	2016
203		
204	GTGTGTGTGT GTGGGGGGGG GGGCGGGCGT GGGGGTGGGA AGGGGGACTA CCATCTGCAT	2076
205		

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206	GTTAGGATGTC TAGCAGTATC CTGTCCCTCCC TACTCACTAG GTGCTAGGAG CACTCCCCA	2136
207	GTCTTGACAA CCAAAAATGT CTCTAAACTT TGCCACATGT CACCTAGTAG ACAAAACTCCT	2196
208	GGTTAAGAAG CTCGGGTTGA AAAAAATAAA CAAGTAGTGC TGGGGAGTAG AGGCCAAGAA	2256
209	GTTAGGTAATG GGCTCAGAACAG AGGAGCCACA AACAAAGGTTG TGCAGGCGCC TGTAGGCTGT	2316
210	GGGTGTGAATT CTAGCCAAGG AGTAACAGTG ATCTGTACAC GGCTTTTAAA AGATTGCTCT	2376
211	GGCTGCTATG TGGAAAGCAG AATGAAGGGA GCAACAGTAA AAGCAGGGAG CCCAGCCAGG	2436
212	AAGCTGTTAC ACAGTCCAGG CAAGAGGTAG TGGAGTGGC TGGGTGGAA CAGAAAAGGG	2496
213	AGTGACAAAC CATTGTCTCC TGAATATATT CTGAAGGAAG TTGCTGAAGG ATTCTATGTT	2556
214	GTGTGAGAGA AAGAGAAGAA TTGGCTGGGT GTAGTAGCTC ATGCCAAGGA GGAGGCCAAG	2616
215	GAGAGCAGAT TCCTGAGCTC AGGAGTTCAA GACCAGCCTG GGCAACACAG CAAAACCCCT	2676
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217	CTCGGGAGGC TGAGGTGGAG GGTATTGCTT GAGCCAGGA AGTTGAGGCT GCAGTGAGCC	2796
218	ATGACTGTGC CACTGTACTT CAGCCTAGGT GACAGAGCAA GACCCTGTCT CCCCTGACCC	2856
219	CCTGAAAAG AGAAGAGTTA AAGTTGACTT TGTTCTTTAT TTTAATTTTA TTGGCCTGAG	2916
220	CAGTGGGGTA ATTGGCAATG CCATTTCTGA GATGGTGAAG GCAGAGGAAA GAGCAGTTG	2976
221	GGGTAAATCA AGGATCTGCA TTTGGGACAT GTTAAGTTTG AGATTCCAGT CAGGCTTCCA	3036
222	AGTGGTGAGG CCACATAGGC AGTTCAGTGT AAGAATTCA GACCAAGGCT GGGCACGGTG	3096
223	GCTCACTTCT GTAATCCCAG CACTTTGGTG GCTGAGGCAG GTAGATCATT TGAGGTCAAG	3156
224	AGTTTGAGAC AAGCTTGGCC AACATGGTGA AACCCCATGT CTACTAAAAA TACAAAATT	3216
225	AGCCTGGTGT GGTGGCGCAC GCCTATAGTC CCAGGTTTTC AGGAGGCTTA GGTAGGAGAA	3276
226	TCCCTTGAAC CCAGGAGGTG CAGGTTGCAG TGAGCTGAGA TTGTGCCACT GCACTCCAGC	3336
227	CTGGGTGATA GAGTGAGACT CTGTCTCAA AAAAAAAAAA AAAAAAAAAA AAAAAACTGA	3396
228	AGGAATTATT CCTCAGGATT TGGGTCTAAT TTGCCCTGAG CACCAACTCC TGAGTTCAAC	3456
229	TACCATGGCT AGACACACCT TAACATTTTC TAGAATCCAC CAGCTTAGT GGAGTCTGTC	3516
230	TAATCATGAG TATTGGAATA GGATCTGGGG GCAGTGAGGG GGTGGCAGCC ACGTGTGGCA	3576
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232	AACTCACCCCT TCACAAAATG AGGACCAGAC ACAGCTGATG GTATGAGTTG ATGCAGGTGT	3696



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